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- (71) Applicant (for all designated States except US): ALTANA PHARMA AG [DE/DE]; Byk-Gulden-Str. 2, 78467 Konstanz (DE).
- (72) Inventors (for all designated States except CA, PH, US): SCHMIDT, Beate; Allensbacher Str. 5, 78476 Allensbach (DE). FLOCKERZI, Dieter; Ackerweg 26, 78476 Allensbach (DE). HATZELMANN, Armin; Alter Wall 3, 78467 Konstanz (DE). ZITT, Christof; Mainaustr. 209 D, 78464 Konstanz (DE). BARSIG, Johannes; Bleichenweg 11, 78467 Konstanz (DE). MARX, Degenhard; Obere Reute 15, 78345 Moos (DE). KLEY, Hans-Peter; Im Weinberg 3b, 78476 Allensbach (DE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): KAUTZ, Ulrich [DE/DE]; Prof.-Schmider-Str. 12, 78476 Allensbach (DE).
- (74) Agents: WILD, Robert et al.; ALTANA Pharma AG, Byk-Gulden-Str. 2, 78467 Konstanz (DE).

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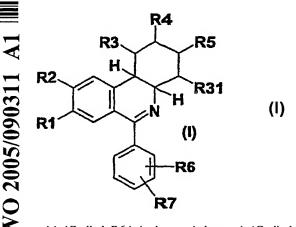
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(54) Title: NOVEL HETEROCYCLYL-SUBSTITUTED HYDROXY-6-PHENYLPHENANTHRIDINES AND THEIR USE AS PDE4 INHIBITORS



(57) Abstract: Compounds of formula (I) in which R1 is hydroxyl, 1-4C-alkoxy, 3-7C-cydoalkoxy, 3-7C-cydoalkylmethoxy, 2,2-difluoroethoxy, or completely or predominantly fluorine-substituted 1-4C-alkoxy, R2 is hydroxyl, 1-4C-aikoxy, 3-7C-cydoalkoxy, 3-7C-cydoalkylmethoxy, 2,2-difluoroethoxy, or completely or predominantly fluorine-substituted 1-4C-alkoxy, or in which R1 and R2 together are a 1-2C-alkylenedioxy group, R3 is hydrogen or 1-4C-alkyl, R31 is hydrogen or 1-4C-alkyl, either, in a first embodiment (embodiment a) according to the present invention, R4 is -O-R41, in which R41 is hydrogen, 1-4C-aikyl,1-4C-alkoxy-1-4C-alkyl, hydroxy-2-C-alkyl, 1-7C-alkylcarbonyl, or completely or predominantly fluorine-substituted 1-4C-alkyl, and R5 is hydrogen or 1-4C-alkyl, or, in a second embodiment (embodiment b) according to the present invention, R4 Is hydrogen or 1-4C-alkyl, and R5 is -O-R51, in which R51 Is hydrogen, 1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, hydroxy-2-4C-alkyl. 1-7C-alkylcarbonyl, or completely or predominantly fluorine-substi-

tuted 1-4C-alkyl, R6 is hydrogen, halogen, 1-4C-alkyl or 1.4C-alkoxy, R7 is Het1, Het2, Hart, Het3 or Har2, In which.